



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-04-25-27 Date: 21-01-22
 Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP,
 Address : Yelahanka Sub Division, BBMP, Bangalore.
 Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward
 No.02 of Yelahanka Sub division.
 Agency : Sri KIRAN GOWDA D (SRI CHANNAKESHA ENTERPRISES),
 N 882, NAGASANDRA, Bangalore-560073
 Customer's Reference : BBMP/EE/YNK D/EPMT-03/W O/244/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 18-01-22
 Sample Type : Birla Super 53 grade
 Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification,
 IS 4031 (Part 1,2,3,4,5, 6,11): 1988
 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING,
 Clause 4.4
 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
 Method, Clause 5
 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste,
 Clause 5
 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
 IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY, Clause 6
 Date of test : 19-01-22
 Environmental Conditions during test : Temperature: 26°C
 Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.25	-
2	Fineness by Air permeability method (m ² /kg.Min)	282.5	225m ² /kg, Min
3	Density (gm/cc)	3.15	-
4	Standard Consistency (%)	28%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	250 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer: Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Signature
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Signature
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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****End of Report****

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AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-04-25-27 Date: 16-02-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.
Agency : Sri KIRAN GOWDA D (SRI CHANNAKESHA ENTERPRISES), N 882, NAGASANDRA, Bangalore-560073
Customer's Reference : BBMP/EE/YNK D/EPMT-03/W O/244/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-01-22
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test : 19-01-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm ²	Not less than 27 N/mm ²
	7 Days	39.5N/mm ²	Not less than 37 N/mm ²
	28 Days	56.5N/mm ²	Not less than 53 N/mm ²

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-25-27 Date: 21-01-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.
Agency : Sri.KIRAN GOWDA D (SRI CHANNAKESHAHA ENTERPRISES), N.882, NAGASANDRA, Bangalore-560073
Customer's Reference : BBMP/EE/YNK D/EPMT-03/W.O/244/2020-21
Source of Sample : Sample supplied by Agency
Sample condition : Satisfactory
Date of Receipt : 18-01-22
Sample Type : 40mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 18-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5439	5781	38.5	61.5	30-70
4	10 mm	4579	10360	69.1	30.9	10-35
5	4.75 mm	4260	14620	97.5	2.5	0-5
6	Pan	380	15000	100.0	0	---

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R. Kumar



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-25-27

Date: 21-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.21	—

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-25-27 Date: 20-01-22
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.
Agency : Sri.KIRAN GOWDA D (SRI CHANNAKESHAHA ENTERPRISES), N 882, NAGASANDRA, Bangalore-560073
Customer Reference : BBMP/EE/YNK D/EPMT-03/W.O/244/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-01-22
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383-2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 18-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	214	214	4.3	95.7	90-100
3	10 mm	2435	2649	53.0	47.0	25-55
4	4.75 mm	2134	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-04-25-27

Date: 20-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.69	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.53	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager

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End of Report



Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-25-27 Date: 20-01-22

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.

Agency : Sri KIRAN GOWDA D (SRI CHANNAKESHAHA ENTERPRISES), N.882, NAGASANDRA, Bangalore-560073

Customer's Reference : BBMP/EE/YNK D/EPMT-03/W.O/244/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-01-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 18-01-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	133	215	21.5	78.5	60-95	75-100	85-100	95-100
4	1.18 mm	179	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	186	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	173	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	156	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result: The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2022-04-25-27

Date: 20-01-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	0.21	—
2	Specific Gravity	1.58	—
3	Material finer than 75 micron(%)	7.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

AE-2
AEE

Results obtained are satisfactory as per standard requirements.

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R. Rudraprasad

R RUDRAPRASAD

Authorized Signatory

Technical Manager

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****End of Report****



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-25-27 Date: 07/02/2022
Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address : Yelahanka Sub Division, BBMP, Bangalore.
Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.
Agency : Sri KIRAN GOWDA D (SRI CHANNAKESHA ENTERPRISES), N.882, NAGASANDRA, Bangalore-560073
Customer's Reference : BBMP/EE/YNK D/EPMT-03/W O/244/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-02-22
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 7 Days Compressive Strength
Reference to BIS codes : IS. 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C15

Date of test : 07/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	31/01/2022	07/02/2022	151.38 X 150.30 X 150.28	22753	8.688	307.6	13.5	13.0
2	PCC	M15	31/01/2022	07/02/2022	151.10 X 151.43 X 149.38	22881	8.980	295.9	12.9	
	PCC	M15	31/01/2022	07/02/2022	149.79 X 150.34 X 151.07	22521	8.324	280.2	12.4	

The results obtained are satisfactory as per standard requirements.

Note:

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AE-02



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Technical Manager

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****End of Report****



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-25-27 Date: 28/02/2022

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.

Agency : Sri KIRAN GOWDA D (SRI CHANNAKESHA ENTERPRISES), N.882, NAGASANDRA, Bangalore-560073

Customer's Reference : BBMP/EE/YNK D/EPMT-03/W O/244/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl 5

Date of test : 28/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	31/01/2022	28/02/2022	149.38 X 149.37 X 151.21	22314	8.551	390.7	17.5	18.2
2	PCC	M15	31/01/2022	28/02/2022	151.65 X 151.52 X 151.63	22977	8.201	442.3	19.3	
3	PCC	M15	31/01/2022	28/02/2022	150.99 X 151.01 X 151.28	22800	9.017	403.9	17.7	

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R RUDRAPRASAD
Authorized Signatory
Technical Manager



Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-25-27 Date: 28/02/2022

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Providing Street Ornamental and Sign boards in Chowdeshwari ward No.02 of Yelahanka Sub division.

Agency : Sri KIRAN GOWDA D (SRI CHANNAKESHIWA ENTERPRISES), N.882, NAGASANDRA, Bangalore-560073

Customer's Reference : BBMP/EE/YNK.D/EPMT-03/W.O/244/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C15

Date of test : 28/02/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	31/01/2022	28/02/2022	149 10 X 151 37 X 149 03	22568	8 167	392.7	17.4	17.8
2	PCC	M15	31/01/2022	28/02/2022	149 90 X 150 89 X 149 09	22619	8 517	419.2	18.5	
3	PCC	M15	31/01/2022	28/02/2022	150 18 X 150 26 X 150 16	22566	8 218	396.9	17.6	

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Technical Manager

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